

Claims:-

1. Method for extracting a root, whereby said root is extracted following a possible initial loosening of the root within the periodontal gap, characterised in that for extracting the root a pin (2) is inserted into the root and affixed there, whreafter a pulling element (3) functionally linked with a tensioning device (4) is connected with the pin (2), and in that the pulling force required for extracting the root is subsequently applied to the root substantially in the direction of the axis of the same by means of the tensioning device (4) that has been partially inserted into the mouth and supported there.
2. Method according to Claim 1, characterised in that the pulling element (3) acting on the root in its axial direction is diverted within the tensioning device (4) and tensioned in a substantially right-angled direction in relation to the axis direction of the root.
3. Method according to Claim 1 or 2, characterised in that the pulling element (3) is pre-tensioned between an application point on the pin (2) and an application point on the tensioning device (4) prior to creating the pulling force required for extracting the root, whereby the distance between the supporting point of the tensioning device in the mouth and the root that is to be extracted will have to be considered.
4. Method according to one of the Claims 1 to 3, characterised in that the pulling element (3) is hooked into the pin (2) on the one hand, and into the tensioning device (4) that is supported in the mouth on the other hand, and pre-tensioned between the two locations prior to hooking up.
5. Method according to Claim 3 or 4, characterised in that the pre-tensioning of the pulling element (3) is effected by means of adjusting a tensioning support (12) moveable substantially at a right angle in relation to the axis direction of the root, the same being adjustable in relation to a base body (10) of the tensioning device (4) supported in the mouth, whereby a loosening of the root can be carried out by means of sudden activation of the tensioning support (12) prior to the creation of the pulling force required for extracting the root.

6. Method according to Claim 5, characterised in that the pulling force required for extracting the root is created by means of a ribbed nut (20) affixed to a threaded bolt (15) connected with the tensioning support (12), which engages the threaded bolt (15) – supported in an axial direction of the threaded bolt (15) on the base body (10).
7. Method according to one of the Claims 1 to 6, characterised in that a threaded pin is inserted into the root as the pin (2), preferably in the axial direction of the same.
8. Device for carrying out the method according to Claim 1, characterised by a pin (2) that can be inserted into the root and affixed there, a pulling element (3) to be inserted into the pin (2), and a manually actuated tensioning device (4) functionally linked with the pulling element (3), to be partially inserted into the mouth and supported there, for creating the pulling force required for extracting the root.
9. Device according to Claim 8, characterised in that the tensioning device (4) incorporates a stretched base body (10) and a tensioning support (12) functionally linked with the pulling element (3), the same being longitudinally adjustable in relation to the base body (10), whereby the tension element (3) tensioned between the pin (3) and the tensioning support (12) rests upon a diverting part (24) connected with the base body (10).
10. Device according to Claim 9, characterised in that the tensioning support (12) is equipped with a longitudinally orientated threaded bolt (15), which projects through a support sleeve (16) affixed to the base body (10), and on which a ribbed nut (20) axially supported on the support sleeve (16) is located, by means of which the threaded bolt (15) connected with the tensioning support (12) is longitudinally adjustable with the axially supported ribbed nut (20).
11. Device according to Claim 9 or 10, characterised in that the pulling element (3) takes the form of a wire, a rope, or a string, whereby means (8, 9) for hooking up the pulling element (3) into a hook-shaped recess (6, 23) of the pin (2) on the one hand, and the longitudinally adjustable tensioning support (12) on the other are envisaged.
12. Device according to Claim 11, characterised in that the tensioning support (12) incorporates several hook-shaped recesses (23) positioned behind each other in a longitudinal direction for selective hooking-up of the pulling element (3).

13. Device according to one of the Claims 10 to 12, characterised in that the tensioning support (12) is adjustable in a longitudinal direction between a front base body section (10a) and a front facing surface (18), whereby the extent of its adjustment is adjustable by means of a ribbed nut (20) supported on a rear facing surface (17) of the supporting sleeve (16).
14. Device according to one of the Claims 9 to 13, characterised in that a rotating segment (30) is rotatably positioned in the base body (10), the axis of which extends diagonally in relation to the displacement direction of the tensioning support (12), and which surrounds the pulling element (3) facing the pin (2), whereby the base body (10) as well as the rotating segment (30) are each equipped with a support surface (28a, 38a) for supporting the same in the mouth.
15. Device according to one of the Claims 1 to 14, characterised in that means are envisaged which effect a sudden pulling of the pulling element (3) during the turning of the ribbed nut (20), for example in that the facing surface (17) of the support sleeve (16) and the ribbed nut (20) abutting against the same are equipped with corresponding radially extending saw teeth or suchlike.